

Patent Abstracts of Japan

PUBLICATION NUMBER : 61177897
PUBLICATION DATE : 09-08-86

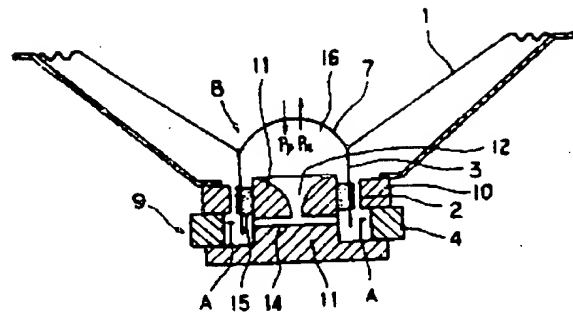
APPLICATION DATE : 01-02-85
APPLICATION NUMBER : 60018107

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INVENTOR : NAKAMATSU YOSHIRO;

INT.CL. : H04R 9/02

TITLE : OSCILLATING DEVICE FOR
UNASSISTED PUMP SPEAKER AND
THE LIKE



ABSTRACT : PURPOSE: To enlarge a frequency reproducing area and to increase an output with removing a distortion by increasing or reducing a pressure within a bobbin by oscillation of an oscillating element and by oscillating the bobbin and a magnetic circuit keeping them separate.

CONSTITUTION: A bobbin 3 in an oscillating element 8 which consists of the winding of a diaphragm 1 and a voice coil 2 and the bobbin 3 having a cover 7 is inserted between the yoke 10 of a magnetic circuit 9 having a magnet 4 and the magnetic pole of a centerpole 11 as to cover the centerpole 11, and a horn opening 12 and a radial nozzle 14 communicated with the horn opening are provided on the upper part of the centerpole 11. When a signal is inputted to the coil 2 and the element 8 is oscillated, a pressure in the enclosed room 16 of the bobbin 3 increases and reduces repeatedly. Thereby, the air is shot up from the nozzle 14 to the inner surface of the bobbin 3 in the direction of 360° when compressing. On the other hand, the element 8 is always kept apart from the magnetic circuit 9 and is positioned almost at center when, in pressure reduction, the inner surface of the bobbin 3 is sucked in the direction 360° directioned.

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